L. galleotianus Harms, Fedde Rep. Spec. Nov. 17: 322. 1921. Oaxaca, Mexico.

L. gillyi Lundell, Wrightia 1: 56. 1945. Chiapas, Mexico.

L. hidalgensis Lundell, Wrightia 1: 153. 1946. Hidalgo, Mexico.

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L. stenodon Harms, Fedde Rep. Spec. Nov. 17: 324, 1921. Oaxaca, Mexico.

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L. yoroensis Standl., Field Mus. Publ. Bot. 9 (4): 296, 1940, Honduras.

ZOOLOGY.—On the crayfishes of the Limosus section of the genus Orconectes (Decapoda: Astacidae).¹ Horton H. Hobbs, Jr., Miller School of Biology, University of Virginia. (Communicated by Fenner A. Chace, Jr.)

In the course of working over a series of crayfishes from the Nashville, Tenn., area collected for me by Dr. C. S. Shoup, of Vanderbilt University, and Dr. Mike Wright, of Tusculum College, it was necessary to examine the type specimens of several of the species of the *Limosus* section. In making this study I arrived at certain conclusions, which are discussed below, concerning the affinities of the members of this section which are not in accord with the opinions of others. In addition to the description of a new species I am including a key to the species of the *Limosus* section.

The new species herein described was first reported by Fleming (1939) under the name Cambarus propinquus sanborni Faxon. I have compared my specimens with Fleming's description and figures which leave much to be desired. In addition, I have examined several crayfish he sent to the United States National Museum² from the only locality he cited for his C. propinguus sanborni, and I am convinced that his specimens were members of the species I am describing below. The only locality that Fleming recorded is "Mill creek, located about 4 miles south of Nashville where this creek crosses the Murfreesboro Road [U. S. Hy. 41], studied on August 18. 1935" (Fleming, 1939, 13: 298).3

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³ This peculiar citation is necessary because

Genus Orconectes Cope 1872 Orconectes shoupi, n. sp.⁴

Cambarus propinkuus Fleming, 1939, 14: 305

(in part).

Cambarus propinquus sanborni Fleming (not Faxon), 1939, 14: 305, 306 (in part), 319, 320, and pl. 14.

Diagnosis.—Rostrum with lateral spines, margins thickened and concave laterad; upper surface with or without a median carina. Fingers of chela with usual longitudinal ridges much reduced; whole hand resembling that of O. rusticus placidus (Hagen, 1870: 65). Epistome with a median carina (see Fig. 4). Areola approximately 9 to 10 times longer than broad, with two or three punctations in narrowest part-length 34-36 percent of entire length of carapace; in male, hooks on ischiopodites of third pereiopods only. Terminal elements of first pleopod of first-form male short, reaching almost to coxopodite of second pereiopod. Two terminal elements separated for only a short distance near tip: mesial process recurved caudomesiad and shorter than central projection. Annulus ventralis immovable. (See Fig. 5 for surface contour.)

Holotypic male, form I.—Body subovate,

Fleming's paper was divided, and appeared in two volumes of the Proceedings of the Tennessee Academy of Sciences; an overlapping in page references causes a further complication. See "Literature Cited."

4 Dr. C. S. Shoup has made a definite and

⁴ Dr. C. S. Shoup has made a definite and worth-while contribution toward a knowledge of the fauna of the State of Tennessee. In token of the interest he has shown in my work on the crayfishes and the many specimens he has added to my collection, I name this new species in his honor.

² These are not the specimens mentioned by Fleming in his report of the higher Crustacea in the Nashville region, for he stated that Mill Creek was "studied on August 18, 1935," and these were collected on August 15, 1936.

distinctly depressed. Abdomen narrower than thorax. Width of carapace greater than depth in region of caudodorsal margin of cervical groove (15.2–9.4 mm).

Areola moderately narrow (9.6 times longer than broad), with two or three punctations in narrowest part; cephalic section of carapace about 1.8 times as long as areola (length of areola about 35.6 percent of entire length of carapace).

Rostrum with thickened margins concave laterad. Upper surface concave, but bearing a weak median carina. Base of acumen set off by corneous knoblike tubercles directed cephalodorsad. Acumen long and terminating cephalad in a corneous knob similarly disposed as the tubercles at its base. Subrostral ridges prominent and visible in dorsal aspect to base of acumen. Raised lateral margins of rostrum flanked laterally and mesially by rows of prominent setiferous punctations.

Postorbital ridges prominent, grooved dorsad and terminating cephalad in heavy acute tubercles. Suborbital angle absent. Branchiostegal spine obtuse, very much reduced. Small lateral spine present on each side of carapace. Surface of carapace granulate laterally and bearing prominent punctations dorsally; small polished area in gastric region.

Cephalic section of telson with two spines in each caudolateral corner.

Epistome bell-shaped in profile with a median longitudinal ridge; no cephalomedian projection.

Antennules of the usual form, with a small spine present on ventral surface of basal segment.

Antennae broken in holotype but extending caudad to cephalic margin of telson in other specimens. Antennal scale of moderate width with subparallel mesial and lateral margins; outer portion broad and swollen and terminating distad in a heavy spine; lamellar portion broad (see Fig. 9).

Chela somewhat depressed; palm inflated; prominent setiferous punctations present over most of chela. Inner margin of palm with three rows of squamous ciliated tubercles. Fingers widely gaping at base. Upper surface of immovable finger with a narrow well-defined ridge along mesial margin; lateral and lower margins with prominent punctations; upper opposable margin with a row of 18 rounded

corneous tubercles; an additional prominent tubercle present below this row at base of distal fifth of finger; minute denticles occurring in a single row on penultimate fifth of mesial surface of immovable finger; mesial distal fifth with a broader zone of similar denticles; lower proximomesial surface bearded. Opposable margin of dactyl with 23 rounded corneous tubercles; distal half of mesial margin bearing minute denticles interspersed between the rounded tubercles. Otherwise dactyl similar to immovable finger.

Carpus of first pereiopod longer than broad, with a prominent longitudinal furrow on upper surface; all surfaces with scattered punctations. Mesial surface with a heavy spinous tubercle; distal upper mesial margin with a prominent rounded tubercle; lower distal margin with two heavy tubercles.

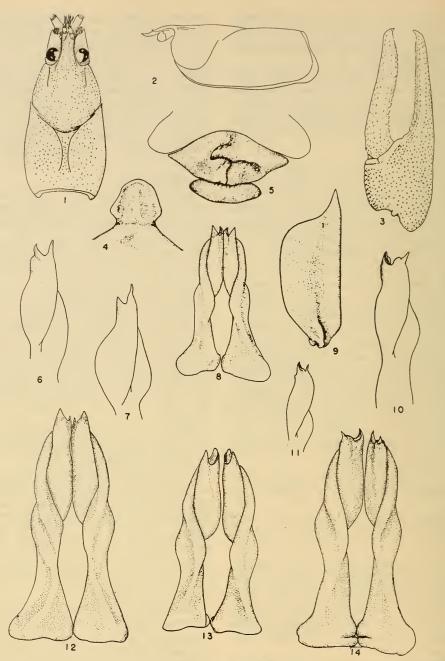
Merus, viewed laterally, with a single prominent tubercle on upper distal surface (a somewhat less prominent one lying mesiad of it but not evident in lateral aspect, nor is it present on sinistral merus). Lateral and mesial surfaces sparsely punctate. Lower surface with a lateral row of five small tubercles and a mesial row of eight (only the distal one in each row at all prominent).

Hooks on ischiopodites of third pereiopods only; hooks strong with proximal surfaces subplane and bearing setae.

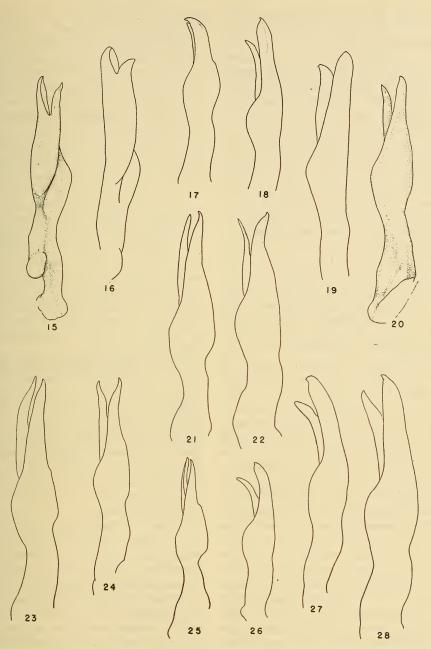
First pleopod almost reaching coxopodite of second pereiopod when abdomen is flexed. Tip terminating in two distinct parts, which are separated for only a short distance. Central projection corneous, almost straight, and somewhat bladelike, with tip slightly recurved. Mesial process extending distad for the proximal half of its length, then bending somewhat sharply caudomesiad.

Morphotypic male, form II.—The only second-form male collected from the type locality is immature. Most of the tubercles mentioned in the description of the first-form male are present in this specimen as acute spines. The lower surface of the carpus and the cephalomesial surface of the merus of the cheliped with tufts of long plumose setae. Rostrum without median carina. Hook on ischiopodite of third pereiopod very much reduced. See Figs. 16 and 19 for structure of first pleopod of a mature second-form male from Mill Creek.

Allotypic female. - Differs from the holo-



Figs. 1-14.—1, Dorsal view of carapace of Orconectes shoupi, n. sp.; 2, lateral view of same; 3, upper surface of chela of first-form male, O. shoupi; 4, epistome of O. shoupi; 5, annulus ventralis of O. shoupi; 6, mesial view of first pleopod of first-form male of O. pellucidus australis (Rhoades), from McFarlen Cave, SW½ NW½ sec. 22, T. 3, R. 3 E., near Garth, Jackson County, Ala.; 7, mesial view of first pleopod of first-form male of O. pellucidus pellucidus (Tellkampf), from Mammoth Cave, Roaring River, Edmonson County, Ky.; 8, caudal view of first pleopods of first-form male, O. pellucidus packardi Rhoades (holotype), from Cumberland Crystal Cave at Alpine, Pulaski County, Ky.; 9, antennal scale of O. shoupi; 10, mesial view of first pleopod of first-form male, of O. inermis Cope, from Seibert's Well Cave near Wyandotte Cave, Crawford County, Ind.; 11, mesial view of first pleopod of first-form male of O. pellucidus packardi Rhoades (holotype) (see explanation of Fig. 8); 12, caudal view of first pleopods of first-form male of O. pellucidus australis (Rhoades) (see explanation of Fig. 6); 14, caudal view of first pleopods of first-form male of O. pellucidus australis (Rhoades) (see explanation of Fig. 10).



Figs. 15–28 (all figures except 15, 16, and 19 lateral views of the first pleopods of first-form males).—
15, Mesial view of first pleopod of first-form male of Orconectes shoupi, n. sp.; 16, same, second-form male; 17, O. harrisoni (Faxon), from stream at Irondale, Washington County, Mo.; 18, O. sloani (Bundy), from Little Creek, Jefferson Township, Preble County, Ohio; 19, lateral view of first pleopod of second-form male of O. shoupi; 20, O. shoupi; 21, O. rafinesquei Rhoades (holotype), from Rough River, at Falls-of-Rough, Grayson-Breckinridge Counties, Ky.; 22, O. limosus (Rafinesque), from Leman Place, Lancaster County, Pa.; 23, O. tricuspis Rhoades (holotype), from Pete Light's Spring, 3 miles east of Canton, Trigg County, Ky.; 24, O. indianensis (Hay), no locality given, U.S.N.M. no. 44448; 25, O. propinquus propinquus (Girard), from Rocky Creek, Muncie County, Ill.; 26, O. difficilis (Faxon), from stream 1 mile south of Wilburton, Latimer County, Okla.; 27, O. kentuckiensis Rhoades (holotype), from Piney Creek, 3 miles west of Shady Grove, Crittenden County, Ky.; 28, O. sloani (Bundy), Indiana (probably from near New Albany), U.S.N.M. no. 58058.

typic male in that the tubercles are for the most part more spiniform; epistome with a small cephalomedian spine; upper distal surface of merus of cheliped with two prominent tubercles evident in lateral aspect; extreme distal margin of merus emarginate: lower surface of merus and mesial surface of carpus with tufts of plumose setae. Annulus ventralis subspindle-shaped, with the greatest length in the transverse axis; cephalic margin evenly rounded and firmly fused with sternum; sinus originates near cephalomedian margin, extends caudad for a short distance, and turns gently caudodextrad, then abruptly sinistrad to cross the median line; here it turns caudad and slightly dextrad to the median line and then caudad to the midcaudal margin of the annulus (see Fig. 5).

Measurements.—Holotypic male: Carapace, height 9.4, width 15.2, length 26.9 mm; areola, width 1.0, length 9.6 mm; rostrum, width 3.8, length 6.4 mm; abdomen, length 27.7 mm; right chela, length of inner margin of palm 7.5, width of palm 11.4, length of outer margin of hand 28.7, length of dactyl 19.3 mm. Allotypic female: Carapace, height 8.0, width 11.6, length 22.6 mm; areola, width 0.70, length 7.8 mm; rostrum, width 3.2, length 5.9 mm; abdomen, length approx. 24 mm; right chela, length of inner margin of palm 5.2, width of palm 7.3, length of outer margin of hand 17.2, length of dactyl 11.3 mm.

Type locality.—Mill Creek, tributary of Cumberland River, east of Oglesby near Antioch Pike, 10 miles south of Nashville, Davidson County, Tenn. Dr. Shoup has kindly furnished the following information: This creek is a hard-water stream flowing over sand and rubble and in its upper reaches over limestone ledges. The banks are silty and muddy, and shade is provided by reeds and trees along its banks. Much of its course is through pasture and cultivated lands. In riffle areas the water has a slightly greenish cast on cloudy days. (M. O. alkalinity—154.0 p.p.m. on January 24, 1947.)

Disposition of types.—The holotypic male, the allotypic female, and the morphotypic male, form II, are deposited in the United States National Museum (no. 84072), and in addition five second-form males and one female, collected by R. S. Fleming (U.S.N.M. no. 77908) are designated as paratypes. Of the remaining paratypes, one male, form I, and one

female are deposited in the University of Michigan Museum of Zoology; one male, form I, and one female in the Museum of Comparative Zoology; and 11 males, form I, one male, form II, two females, five immature males, and one immature female are in my personal collection at the University of Virginia.

Specimens examined.—Tennessee, Davidson County: Seven Mile Creek, 5 miles southeast of Nashville, November 11, 1944, two males, form I, one male, form II, and two females—C. S. Shoup, collector; Mill Creek, 10 miles south of Nashville, November 11, 1944, eight males, form I, one male, form II, and three females—C. S. Shoup, collector; Mill Creek at junction with U.S. Highway 41, about 3 or 4 miles south of Nashville, October 11, 1939, two males, form I-W. K. Smith, collector; same locality, August 15, 1936, five males, form II, and one female-R. S. Fleming, collector; Mill Creek at Antioch Pike, July 19, 1945, two males, form I, one male, form II (shed test), and four immature males-Mike Wright, collector.

Fleming (1939, 14: 319) states: "All of these species (including *C. propinquus sanborni* Faxon) were present throughout the region studied . . ."; however, he cites only one locality in which this species was taken. I strongly doubt that his statement is correct, for Drs. Shoup and Wright have collected in a large number of localities in the Nashville region and have taken *O. shoupi* (=Fleming's *C. propinquus sanborni* Faxon) from only the localities cited above.

Variation.—The rostrum may or may not bear a median carina. The bearded condition of the cheliped which is pointed out in the description of the morphotypic male, form II, is best developed in young specimens and may be reduced or obsolete in older ones. As in most species the spiniform condition is accentuated in the younger specimens, and in the older ones very much reduced; further, in some of the females mirrored images of the annulus ventralis as described for the allotype occur.

Relationships.—Orconectes shoupi is a member of the Limosus section; it possesses short gonopods, the tips of which are separated for only a short distance. Its closest affinities are with O. sloani (Bundy) (1876:24), O. tricuspis Rhoades (1944:117), and O. rafinesquei Rhoades (1944:116). O. shoupi may readily be

distinguished from any other species of the *Limosus* section by the rostrum with thickened ridges and the long-fingered chelae—both of which resemble those of *O. rusticus placidus*. (see further remarks below.)

LIMOSUS SECTION

Ortmann (1931:64) defined the section of Orconectes limosus as follows: "Gonopods of male, short, rather thick up to near the tips, reaching to the coxopodites of the third peraeopod. Tips separated for a short distance only, each tapering to a point. Males with hooks on third, or on third and fourth peraeopods." In this section he included O. harrisoni, O. sloani, O. indianensis, O. limosus, O. pellucidus pellucidus pellucidus pellucidus pellucidus, and O. pellucidus testii.

Since 1931 Rhoades has described several additional species and subspecies belonging to the *Limosus* section, and in his *Crayfishes of Kentucky* (1944:117) recognized two groups of the section, and listed under them the species indicated below:

Limosus group—"characterized by strongly diverging tips of the gonopods." Species: O. limosus (Rafinesque), O. sloani (Bundy), and O. indianensis (Hay).

Rafinesquei group—"the tips of the first pleopod are both recurved in the same direction." Species: O. rafinesquei Rhoades, O. tricuspis Rhoades, O. pellucidus pellucidus (Tellkampf), O. pellucidus testii (Hay), O. pellucidus australis (Rhoades), O. pellucidus packardi Rhoades, O. kentuckiensis Rhoades, and O. harrisoni (Faxon)

It is questionable that the above subdivision of the section into the Limosus and Rafinesquei groups is based on true affinities: e.g., if the pleopod of O. kentuckiensis is compared with that of O. sloani and O. tricuspis, certainly it is more like that of the former. This relationship is seen not only in the first pleopod but also in the annuli ventralis of the two. It also seems to me that O. harrisoni is more nearly related to O. sloani than it is to O. tricuspis or O. rafinesquei. Except for the fact that the terminal elements of the first pleopods of the several subspecies of O. pellucidus are "recurved in the same direction" (and I might indicate that among the specimens I have examined of pellucidus pellucidus the terminal elements are straight), I can see no indication of closer affinities of these forms with the members of the Rafinesquei group than with those of the Limosus group—in fact, if any division of the *Limosus* section is made then it would seem that *O. inermis* and the various subspecies of *O. pellucidus* would constitute a natural group that should receive a status equivalent to that of the other subdivisions.

The problem of the status of *O. inermis* remains unsolved. Though I have seen relatively few specimens of the several subspecies of *O. pellucidus* I have examined several belonging to all of them, and none are like *O. inermis*. Perhaps it will be shown to be a subspecies of *O. pellucidus*; however, until future work will indicate intergradation between the two, it seems advisable to retain its specific status.

As might be expected, with the discovery of additional species the Limosus section has become decidedly less clear cut, and certain species exhibit characters transitional between the more typical members of the Limosus section and members of other sections of the genus. Even in Ortmann's diagnosis of the Limosus section quoted above the best character is stated on a relative basis, and a worker not already familiar with an over-all picture of the genus would have difficulty in deciding whether a given specimen belonged to the Limosus or Propinguus sections (Ortmann, 1931: 64, 65). The difficulty at the time that Ortmann diagnosed the section was not so great as it has been since the somewhat "atypical" O. tricuspis, O. rafinesquei, and O. shoupi have been added to the list of described species belonging to the section. In these species the terminal elements of the first pleopod are almost as slender and long as are those of some of the members of the Propinguus section (see Figs. 21, 23, 25). These obvious resemblances as well as the similarities of the annuli ventralis and other anatomical features between O. propinguus propinguus (Girard, 1852: 88) and O. tricuspis make the distinction between the two sections seem somewhat unnatural—i.e., there seem to me to be about as many resemblances between O. tricuspis and the subspecies of O. propinguus as between O. tricuspis and O. sloani, O. limosus, and O. indianensis. Furthermore, considering the pleopods alone, O. kentuckiensis is transitional between O. limosus and O. sloani on one side and O. difficilis (Faxon, 1898: 656) on the other—the latter at present being relegated to the Virilis section (Ortmann, 1931: 90). Rhoades (1944: 123) states in reference to the affinities of O. kentuckiensis that it "represents a more advanced stage in the series of the 'Group rafinesquei'. The tips are stouter and more differentiated and the annulus is more depressed as in sloani and other members of the 'Group limosus'. In this character it resembles closely O. immunis immunis. Furthermore, it is not difficult to see a possible affinity to the 'Section of C. virilis' [=O. virilis] even in the gonopods of the male."

Whether these similarities are results of convergence or whether they indicate actual close relationships can hardly be determined until a more exhaustive study of the group (which will necessarily mean extensive collecting) is made. On the basis of the evidence at hand I find it difficult to consider these resemblances arising independently in the three sections.

The taxonomists working with the crayfishes of the Cambarinae have for a long time found it convenient to recognize "sections," "groups," and "subgroups," and even though there are certain species that on the bases of the diagnostic characters appear to be intermediate between two sections or groups, at least a temporary retention of their usage seems desirable. Whereas the limits of variation in the three sections of the subgenus Orconectes are not decidedly marked, and almost impossible to define in words, recourse to determined specimens or figures should alleviate difficulty in determining to which section or group any specimen in question belongs. For this reason I am including a sketch of the pleopods of all the species and subspecies (except O. pellucidus testii, of which I do not have a first form male) belonging to the Limosus section, and in addition, for comparative purposes, the pleopods of O. propinguus propinguus and O. difficilis.

KEY TO THE SPECIES AND SUBSPECIES OF THE LIMOSUS SECTION OF ORCONECTES (Based on the First-Form Male)

1. Body pigmented, eyes well developed 2
Body not pigmented, eyes reduced 9

Terminal elements of first pleopod subequal or not subequal in length, but central projection never bent cephalodistad—either straight, directed caudad, or caudodistad...4 4. Central projection bent caudad at an angle greater than 45°...O. harrisoni (Faxon) Central projection directed distad or bent caudad at an angle less than 45°.......5

5. Terminal elements of first pleopod subequal in length or mesial process slightly longer than central projection.

Terminal elements of first pleopod not widely separated, and slender and tapering; tip of mesial process caudolaterad of central projection.....O. rafinesquei Rhoades

11. Cephalic surface of first pleopod in region of central projection straight; mesial process directed distad and extending distad beyond central projection.

...O. pellucidus pellucidus (Tellkampf) Cephalic surface of first pleopod in region of central projection curved; mesial process directed caudodistad and somewhat laterad, and not extending distad beyond central projection....O. inermis Cope

⁵ The holotype of *O. pellucidus australis* has a small short acute spine (probably corresponding to the caudal process seen in many members of the genus *Procambarus*), which in lateral aspect lies between the central projection and the mesial process.

Shoulder on cephalic margin at base of central projection distinctly angular; hooks present on ischiopodites of third and fourth pereiopods. O. pellucidus packardi Rhoades.

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ORNITHOLOGY—The races of the black-throated sunbird, Aethopyga saturata (Hodgson). H. G. Deignan, U. S. National Museum.

For more than 30 years the race of Aethopyga saturata common on the mountains of northwestern Siam has, without any direct comparison of specimens, been recorded as sanguinipectus (a name originally applied to the form of the Karen Hills). Topotypes of sanguinipectus and of its presumed synonym waldeni (described from Mount Mulevit in Tenasserim) are nowhere available in America, but reference to the first descriptions and especially to Shelley's Monograph of the Nectariniidae, pt. 6, 1878, pp. 37-38 and colored plate (where the description is taken from the types of sanguinipectus and the illustration from the types of waldeni), has shown that sanguinipectus has the entire throat (except only the center of the chin) metallic blue or violet and is thus quite different from the Siamese bird, as well as from the several populations of Indochine that have been masquerading under its name. This discovery has made necessary a revision of the species, with the result that the number of races has been increased from the five accepted by Delacour (Zoologica 29: 34. 1944) to nine, of which three are here described for the first time.

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1. Aethopyga saturata saturata (Hodgson)

[Cinnyris] Saturata Hodgson, India Rev. and Journ. Foreign Sci. and Arts 1 (7): 273. Oct. 1836 (Nepal).

Nectarinia hodgsonis [sic] Jardine, Naturalist's Library 36 [Nectariniidae]: 240, 269 [where spelled hodgsoni], pl. 28, 1843 (Nepal).

Range. Himalayas, from Garhwal to Bhutan. Remarks. The reference to Hodgson's name is incorrectly cited by Stuart Baker (Fauna of British India, birds, ed. 2, 7: 285. 1930) as "Ind. Review, vol. ii, p. 273, 1837." Sherborn (Index Animalium, p. 5753) gives "India Rev. I. 1837, 273." According to the researches of the late C. W. Richmond, the first volume of the India Review appeared in 12 monthly installments from April 1836 to Märch 1837, and the proper citation is that given above.

2. Aethopyga saturata assamensis (McClelland)

Cinnyris assamensis McClelland, Quart. Journ.